

**TOP SECRET****PRIORITY**

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5X1 **T O P S E C R E T T I T T I**

CITE NPIC 1809.

**SUBJECT: INSTRUCTIONS FOR USE OF THE UNIVERSAL GRID NUMBER 1 FOR KH-4B PHOTOGRAPHY**

1. THE ADVENT OF THE KH-4B CAMERA SYSTEM MAKES IT NECESSARY FOR NPIC TO ESTABLISH NEW PROCEDURES FOR USE OF THE UNIVERSAL GRID ON THE PANORAMIC CAMERA FORMAT. THIS IS NECESSARY DUE TO THE REMOVAL OF THE CENTER OF FORMAT SHRINKAGE MARK PREVIOUSLY USED TO ORIENT THE GRID ON THE KH-4A CAMERA SYSTEM. ITS REPLACEMENT, DOUBLE RAIL HOLES WITH A NOMINAL DIAMETER OF 75 MICRONS.

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ALTHOUGH THE GRID REFERENCE SYSTEM NPIC RECOMMENDS BELOW CAUSES SOME PROBLEMS, IT IS THE MOST COMPATIBLE AND SIMPLEST TECHNIQUE.

2. POSITIONING THE GRID.

A. PLACE THE FILM ON THE LIGHT TABLE SO THE TITLING IS READABLE.

B. PLACE THE GRID OVER THE FILM SO THE GRID IS READABLE. THE TITLE EDGE OF THE GRID AND DATA BLOCK (BINARY WORD) EDGE OF THE FILM WILL THEN FALL ON THE SAME SIDE AWAY FROM THE USER.

C. ALIGN X EQUAL 0 ALONG THE LEFT EDGE OF THE FORMAT AND Y EQUAL 0 ALONG THE BOTTOM EDGE OF THE FORMAT. THE CAMERA SERIAL NUMBER HAS AN X COORDINATE OF APPROXIMATELY 55.5, AND THE DATA BLOCK (BINARY WORD) HAS APPROXIMATE COORDINATES OF X28.0 AND Y5.8. THE TIME TRACK WILL APPEAR SLIGHTLY BELOW THE Y EQUAL 0 AXIS, AND THE UPPER EDGE (DATA BLOCK SIDE) OF THE FORMAT WILL HAVE APPROXIMATE Y COORDINATES OF 5.5.

3. PLEASE ADVISE NPIC IMMEDIATELY IF THIS PROCEDURE IS NON-ACCEPTABLE. THE PROCESSING SITE HAS BEEN INSTRUCTED TO PRINT INSTRUCTIONS FOR USAGE OF THE UNIVERSAL GRID ON HEAD AND TAIL IDENTIS ADJACENT TO FIRST AND LAST FRAMES OF ALL MISSION PARTS. THE PRESENT GRID ORIENTATION, CENTER AT X46, Y12, WILL BE CONTINUED FOR THE KH-4 AND KH-4A CAMERA SYSTEMS.

4. REQUEST ALL DOD USERS OF FILM BE ADVISED ACCORDINGLY.

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**T O P S E C R E T**

END OF MESSAGE

5X1 **S/C NOTE: ALSO PASSED** [ ] **EXCEPT PARA 4.**

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NGA Review Complete

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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